

Class 1mct5
 First Name: Margot
 Name De haene
 Project Name : Sens'O
 Assembly Revision : _____
 Approval Date : _____
 Part Count : 17
 Total Cost : €297



Part #	Part Name	Description	Revision	Qty	Supplier	also available from	Units	Unit Cost	Max Cost	Real Cost
1	Raspberry Pi 4 Model B	Raspberry Pi to control the entire system	1	1	SOS Solutions	Kiwi Electronics	1	39,95 €	€ 39,95	€ 39,95
2	Raspberry PI T-cobbler	Breakout board for Raspberry Pi	1	1	Adafruit	Amazon	1	6,13 €	€ 6,13	€ 6,13
3	RFID reader set	RFID reader to read the tags from the users	1	1	Banggood	Amazon	1	4,92 €	€ 4,92	€ 4,92
4	RFID tags	RFID tags for each user to use with the reader	3	5	Gotron	Kiwi Electronics	1	0,79 €	€ 3,94	€ 3,94
5	Resistor kit	Kit full of all sorts of resistors	1	1	Banggood	Amazon	1	5,20 €	€ 5,20	€ 5,20

6	Micro SD Card 16GB	SD card for the Raspberry Pi to store your image	3	1	Bol.com	Amazon	1	10,99 €	€ 10,99	€ 10,99
7	Ultrasonic sensor	Ultrasonic sensor to measure the distance between the water and sensor	1	2	Banggood	Amazon	1	1,15 €	€ 2,30	€ 2,30
8	One-wire temperature sensor DS18B20	Temperature sensor to measure the temperature in your water	1	1	Gotron	Banggood	1	11,91 €	€ 11,91	€ 11,91
9	Jumper wires (optional)	Jumper wires to connect all the electronics	1	1	Banggood	Kiwi Electronics	1	4,95 €	€ 4,95	€ 4,01
10	24V Peristaltic Pump	Peristaltic Pump to bring the water from the reservoir to the glass/water bottle	1	1	Banggood	Amazon	1	33,85 €	€ 33,85	€ 33,85
11	Translucent Silicone Tubing Hose	Tubing for the peristaltic pump	1	2	Banggood	Amazon	1	3,94 €	€ 7,88	€ 7,88
12	LCD display	LCD display to display the display the important information/IP	1	1	Banggood	Kiwi Electronics	1	2,58 €	€ 2,58	€ 2,58
13	Step down regulator	Step down regulator from 24V to 5V for Raspberry Pi	2	1	Banggood	Amazon	1	7,43 €	€ 7,43	€ 7,43
14	Power adapter	To power the whole circuit	2	1	Banggood	Amazon	1	10,02 €	€ 10,02	€ 10,02
15	Button	Button to control the pump	1	1	Banggood	Kiwi Electronics	1	3,47 €	€ 3,47	€ 3,47

16	USB Type-C cable	USB Type-C to connect with the Step down regulator and Rpi	3	1	Banggood	Amazon	1	2,66 €	€ 2,66	€ 2,66
17	10L container	Watertank to hold the water	3	1	Bol.com	Amazon	1	14,95 €	€ 14,95	€ 14,95
18	Plywood planks 250x122x0,8cm	Plywood planks to build the case	3	3	Brico	Gamma	1	37,29 €	€ 111,87	€ 111,87
19	Funnel	Funnel for the case to transport the water	3	1	Bol.com	Banggood	1	11,95 €	€ 11,95	€ 11,95
Total			17					€ 296,95	€ 296,01	